

CLAIMS

1. A radio communication system whereby, in a radio communication system that has an overlay structure in which a first cell with a comparatively wide area and a second cell with a smaller area than said first cell are superimposed, the radio transmission method differs between a system of said first cell and a system of said second cell, and said system of said second cell includes a channel with a high transmission rate, and a mobile station selects a system to which wanted connection is desired from said system of said first cell and said system of said second cell, and performs communication with the selected system.
2. The radio communication system according to claim 1, wherein said system of said first cell and said system of said second cell are controlled by a common control station and are connected to a telephone network via an exchange.
3. The radio communication system according to claim 1, wherein at least one system of said system of said first cell and said system of said second cell is connected to an IP packet network via a router.
4. The radio communication system according to claim 1,

wherein it is possible to perform communication with said system of said first cell and said system of said second cell simultaneously on different channels.

- 5 5. The radio communication system according to claim 1, wherein said mobile station selects a system taking into account at least one item chosen from a group consisting of service, communication environment, and speed of movement of the station itself, in said first cell and
10 said second cell.

6. The radio communication system according to claim 1, wherein a CDMA-FDD system is used in said first cell and a CDMA-TDD system is used in said second cell.

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7. A communication terminal apparatus comprising:

monitoring means for monitoring downlink signals from each cell in a radio communication system that has an overlay structure in which a first cell with a
20 comparatively wide area and a second cell with a smaller area than said first cell are superimposed;

selecting means for selecting a cell system to be connected to based on information monitored by said monitoring means and a connection request from the station
25 itself; and

communication connecting means for performing communication connection to a base station of a system

selected by said selecting means.

8. The communication terminal apparatus according to claim 7, wherein said selecting means selects a system
5 taking into account at least one item chosen from a group consisting of service, communication environment, and speed of movement of the station itself, in said first cell and said second cell.

10 9. A base station apparatus comprising:

determining means for determining, based on connection request information from the communication terminal apparatus according to claim 7 and communication condition information measured by the station itself,
15 whether or not connection to said communication terminal apparatus is possible; and

communication connecting means for, when a result of determination by said determining means is that connection is possible, performing communication
20 connection to said communication terminal apparatus, and, when a result of determination by said determining means is that connection is not possible, notifying said communication terminal apparatus that connection is not possible.